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USES OF OUTER SPACE

UNITED NATIONS PROGRAMME ON SPACE APPLICATIONS AND THE COORDINATION OF SPACE ACTIVITIES WITHIN THE UNITED NATIONS SYSTEM

List of the activities sponsored by the United Nations Programme on Space Applications from 1971 to 1997

Report by the Secretariat

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EXPLANATORY NOTES

Secretariat units, bodies and specialized agencies

UNEP	United Nations Environment Programme
ECE	Economic Commission for Europe
ECAFE	Economic Commission for Asia and the Far East
ESCAP	Economic and Social Commission for Asia and the Pacific (formerly ECAFE)
ECLAC	Economic Commission for Latin America and the Caribbean
ECA	Economic Commission for Africa
ECWA	Economic Commission for Western Asia
ESCWA	Economic and Social Commission for Western Asia (formerly ECWA)
UNDRO	Office of the United Nations Disaster Relief Coordinator
UNDP	United Nations Development Programme
FAO	Food and Agriculture Organization of the United Nations
UNESCO	United Nations Educational, Scientific and Cultural Organization
WMO	World Meteorological Organization

Other entities

AIAA	American Institute of Aeronautics and Astronautics
BITS	Swedish Board for Investment and Technical Support (now called the Swedish International Development Cooperation Agency (SIDA)
CEC	Commission of the European Communities
CIESIN	Consortium for International Earth Science Information Network
CNES	Centre national d'études spatiales (France)
CNIE	Comisión Nacional de Investigaciones Espaciales (Argentina)
CONAE	Comisión Nacional de Actividades Espaciales (Argentina)
CONIDA	Comisión Nacional de Investigación y Desarrollo Aeroespacial (Peru)
COSPAR	Committee on Space Research
DARA	German Space Agency
DLR	German Aerospace Research Establishment
EOSAT	Earth Observation Satellite Company
ERIM	Environmental Research Institute of Michigan
ERSI	Environment and Remote Sensing Institute (Zimbabwe)
ESA	European Space Agency
IAF	International Astronautical Federation
IASD/STAJ	International Space Affairs Division of the Science and Technology Agency of Japan
ICTP	International Centre for Theoretical Physics
IMC	Instituto Mexicano de Comunicaciones
Inmarsat	International Mobile Satellite Organization
INPE	Brazilian National Space Research Institute
INTA	Instituto Nacional de Técnica Aeroespacial (Spain)
IOMAC	Indian Ocean Marine Affairs Cooperation
ISPRS	International Society for Photogrammetry and Remote Sensing
ISRO	Indian Space Research Organization
LAPAN	National Institute of Aeronautics and Space (Indonesia)
NAMRIA	National Mapping and Resources Information Authority (Philippines)
NASA	National Aeronautics and Space Administration (United States of America)
NOAA	National Oceanic and Atmospheric Administration (United States of America)

NRSA	National Remote Sensing Agency (India)
NRSC	Israeli National Committee on Space Research
ONEMI	Oficina Nacional de Emergencia del Ministerio del Interior (Chile)
OTE	Hellenic Telecommunications Organization
RCSSMRS	Regional Centre for Surveying Services, Mapping and Remote Sensing
SSCSatellitbild	Swedish Space Cooperation
TPS	The Planetary Society
UNAM	Universidad Nacional Autónoma de México
USGS	United States Geological Survey

INTRODUCTION

1. The United Nations Programme on Space Applications was established in response to General Assembly resolution 2601 A (XXIV) of 16 December 1969, in which the General Assembly approved the recommendation of the Committee on the Peaceful Uses of Outer Space (COPUOS) that the Secretary-General assess the requirements for promoting international cooperation for the peaceful uses of outer space. The Programme is implemented by the Office for Outer Space Affairs.

2. The General Assembly, in its resolution 37/90 of 10 December 1982, took into account the recommendations of the Second United Nations Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE 82), held at Vienna in 1982, and expanded the mandate of the Programme to include, in particular, the following elements: provision of assistance in the development of indigenous capability at the local level; provision of long-range fellowships for in-depth training; provision of technical advisory services to Member States, specialized agencies and regional institutions upon request; organization of regional and international workshops, training courses, seminars, expert meetings, conferences, and symposia for the benefit of specialists, educators, managers, and decision makers in order to enhance their technical capabilities as well as keep them abreast of ongoing developments in the discipline; acquisition and dissemination of space-related information; and promotion of greater cooperation between developed and developing countries, as well as among developing countries.

3. The goal of the Programme is to strengthen international cooperation and the widest possible exchange of information related to space science and technology and their applications, for the benefit of Member States, in particular developing countries. The activities of the Programme focus on space science and technology and its applications that could benefit Member States at all stages of economic, social and cultural development. In recent years, the Programme has increased its focus on education and research in space science and technology and its applications to stimulate the growth of indigenous capability in this field in developing countries.

4. Following the recommendations of UNISPACE 82, the Programme on Space Applications focused its attention on how to translate the elements of the expanded mandate of the Programme into operational activities through workshops, training courses, seminars, expert meetings, conferences, symposia, and technical advisory services. Those activities are an important element in the efforts of the Programme to promote international cooperation in the peaceful uses of outer space and to enhance the capability of countries to utilize space technology for their national development.

5. In order to respond effectively to the needs of the international community, the promotion of the practical applications of space technology, including remote sensing, satellite communications, satellite meteorology and space and atmospheric sciences, is tailored to enable developing countries to gain a better understanding and appreciation of the potential benefits that could be derived from space technology.

6. The activities undertaken annually by the Programme also address specific regional needs and concerns of Member States. Many of those activities have thus been organized for the benefit of States members of the following regional commissions of the Economic and Social Council: Economic Commission for Europe (ECE); Economic and Social Commission for Asia and the Pacific (ESCAP); Economic Commission for Latin America and the Caribbean (ECLAC); Economic Commission for Africa (ECA); and Economic and Social Commission for Western Asia (ESCWA).

7. Through the Programme, the Office for Outer Space Affairs assists Member States, *inter alia*, in developing their indigenous capability in space science and technology and their applications, in order to create and enhance national capabilities needed to benefit from space science and technology. By developing those

skills and capabilities, as well as facilitating and increasing the participation of the States concerned in national, regional and international forums on space science and technology, the Programme also promotes the development of developing countries.

8. In this regard, the areas covered are remote sensing applications, satellite communications, meteorological satellite applications, and space and atmospheric sciences.

I. METHODOLOGY

9. The present report was prepared by the Space Applications Section of the Office for Outer Space Affairs. It is intended to serve as a reference document providing Member States with an overview of the activities sponsored by the Programme from 1971 through 1997.

10. The report has been compiled from the annual reports of the United Nations Expert on Space Applications and the individual annual reports on the activities sponsored by the Programme from 1971 through 1997.

11. The objective of the report is to provide Member States, through its annex, with a summary of the steps taken by the Programme towards the following ends:

(a) Translating the recommendations of UNISPACE 82 into operational activities from 1971 through 1997;

(b) Focusing on the promotion of education, public awareness and training in order to stimulate the growth of indigenous capabilities in space science and technology and their applications for the benefit of specialists, educators, managers and decision makers from developing countries;

(c) Providing opportunities to interested Member States to increase their awareness of the benefits that can be derived from the applications of space technology, in particular in promoting sustainable development.

12. In view of the preparatory work towards the convening of the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE III), and in order to provide Member States with a reference document on the activities sponsored by the Programme, the Office for Outer Space Affairs is providing the information in a table format. The information on the activities sponsored by the Programme between 1971 and 1997 is provided in the annex and includes the following: year of activity, date, type of activity, title, place of activity, co-sponsors, region of impact, number of participants attending the activity and the document symbol of the full report of the activity. There are two categories of participants: participants from developing countries funded by the Programme and other co-sponsors; and the total number of participants, which includes funded, non-funded international and local participants.

II. CONCLUSION

13. In implementing the recommendations of UNISPACE 82, the table shows the increasing attention devoted by the Programme to education and research. There has also been an increase in the total yearly number of activities sponsored by the Programme, including, since 1982, the number of workshops and training courses, whereas the number of seminars, expert meetings, symposia and conferences has decreased.

14. To create and enhance national capabilities needed to benefit from space science and technology and its applications, most of the activities have concentrated on the following areas, listed in terms of the frequency

of requests and the priority given by Member States: remote sensing applications, satellite communications, meteorological satellite applications and space and atmospheric sciences.

15. To adjust the scope of activities organized by the Programme and to determine whether a particular type of activity effectively contributes to the development of capabilities in developing countries, the representatives of the Office for Outer Space Affairs have usually urged participants to communicate regularly with it, as well as with the co-sponsors of each activity, to assess the effectiveness of the activities concerned in enhancing indigenous capabilities in terms of the quality, quantity and productivity of the scientific and technical education of national specialists. A summary of statistics on selected activities of the Programme from 1983 to 1991 is given in the report of the United Nations Expert on Space Applications contained in document A/AC.105/595. In this connection, the results of the impact of the United Nations/Sweden Training Courses on Remote Sensing Education for Educators held in 1990, 1992 and 1993 are covered in document A/AC.105/616.

16. Through enhancing the ability of all countries to utilize space technology and its applications, the main goal of the Programme is to promote international cooperation in the peaceful uses of outer space and to expand the contribution of space technology to national development.

17. The present report, which is intended to serve as a reference document, provides Member States with a summary of the activities sponsored by the Programme from 1971 through 1997. A total of 143 activities have been organized by the Programme, with approximately 7,500 participants.

18. As developing countries prepare to meet their commitment to the goals of UNISPACE III, a renewed emphasis will need to be placed on educating individuals in emerging space-related fields and strengthening the capabilities of Member States, in particular developing countries, in the applications of space science and technology for economic, social and cultural development. A summary of those activities which have an impact on environmental and sustainable development issues is given in the report of the United Nations Expert on Space Applications contained in document A/AC.105/693.

19. The Programme remains available to assist Member States in exploring activities that demonstrate how space science and technology and their applications can be used to address their local needs, particularly in such areas as remote sensing, satellite communications, meteorological satellite applications and space and atmospheric sciences.

20. To assist developing countries in their efforts to take advantage of the many practical benefits offered by space science and technology and their applications, the Programme will need to expand its activities aimed at developing the capabilities of those countries in the fields of environmental monitoring and sustainable development and promoting the utilization of the technologies involved for economic, social and cultural development. Such an approach will foster mutual understanding between the participants and educators, scientists and policy makers whose interests might be articulated by governmental and non-governmental organizations. The Office, through the Programme, is playing and will continue to play an instrumental role in this endeavour.

Annex

SUMMARY OF ACTIVITIES OF THE UNITED NATIONS PROGRAMME ON SPACE APPLICATIONS: 1971-1997*

No.	*Year*	*Date*	*Type of event*	*Title of event*	*Place of event*	*Co-sponsors*	*Region of impact*	*Number of participants* F/T*	*United Nations document symbol*
1.	1971	3 - 14 May	Expert Meeting	UN Panel Meeting on Remote Sensing Systems for Earth Resource Surveys	Ann Arbor, Michigan, USA	NASA, Govt. of USA	Global	T: 35	A/AC.105/92
2.		29 Nov. - 10 Dec.	Expert Meeting	UN Panel Meeting on the Establishment and Implementation of Research Programmes	São José dos Campos, Brazil	INPE, Govt. of Brazil	Global	T: 136	A/AC.105/98
3.	1972	29 Nov. - 8 Dec.	Seminar	Panel and Training Seminar on Uses of Meteorological Satellite Data (with special emphasis on tropical areas)	Mexico City, Mexico	Govt. of Mexico WMO	ECLAC	F: 27	A/AC.105/113
4.		12 - 20 Dec.	Expert Meeting	Panel Meeting on Satellite Instructional Television Systems	New Delhi, Ahmedabad, India	Govt. of India, ISRO	ECAFE ECA	T: 128	A/AC.105/114
5.	1973	22 - 31 Oct.	Seminar	Regional Seminar on Satellite Broadcasting Systems for Education and Development	Addis Ababa, Ethiopia	Govt. of Ethiopia UNESCO	ECA	T: 31	A/AC.105/120
6.		3 - 7 Dec.	Expert Meeting	Panel Meeting on the Applications of Remote Sensing of Earth Resources	Buenos Aires, Argentina	Govt. of Argentina	ECLAC	F: 17 T: 25	A/AC.105/121
7.	1974	26 Feb. - 7 March	Expert Meeting	Panel Meeting on Satellite Broadcasting Systems for Education and Development	Tokyo, Japan	Govt. of Japan	ESCAP	T: 103	A/AC.105/128

Notes: F: funded participants from developing countries.
T: total number of participants, including funded, non-funded, international and local.
No figure means that the number of participants could not be specified.

*The data are reproduced in the form in which they were received.

No.	*Year*	*Date*	*Type of event*	*Title of event*	*Place of event*	*Co-sponsors*	*Region of impact*	*Number of participants* F/T*	*United Nations document symbol*
8.		4 - 16 Sept.	Seminar	Regional Seminar on Earth Resources and Environment	Cairo, Egypt	FAO	ECA ESCWA	F: 32 T: 121	A/AC.105/136
9.		4 - 14 Nov.	Seminar	Interregional Seminar on the Applications of Geodetic and Remote Sensing Data for Cartography (surveying and mapping)	São José dos Campos, Brazil	Govt. of Brazil Centre of Research for Int'l Dev. (Canada)	Global	F: 19 T: 78	A/AC.105/141
10.	1975	12 - 30 May	Seminar	Interregional Technical Seminar on Remote Sensing Applications	Guelph, Ottawa, Canada	Govt. of Canada, UNESCO	Global	F: 21 T: 34	A/AC.105/159
11.		2 - 11 Sept.	Seminar	Regional Seminar on Satellite Broadcasting System for Education and Development	Mexico City, Mexico	UNESCO	ECLAC	F: 12 T: 58	A/AC.105/160
12.		6 - 17 Oct.	Seminar	Regional Training Seminar on the Interpretation, Analysis and Use of Meteorological Satellite Data	Nairobi, Kenya	WMO	ECA	F: 23 T: 56	A/AC.105/161
13.		19 -28 Nov.	Seminar	Regional Seminar on Remote Sensing Applications	Jakarta, Indonesia	FAO, LAPAN, COSPAR	ESCAP	F: 14 T: 51	A/AC.105/162
14.	1976	16 - 28 Jan.	Training Course	Satellite Instructional Television of Experiment (SITE) Winter School	New Delhi, India	UNESCO, ISRO	Global	F: 12 T: 12	A/AC.105/177
15.		22 July - 10 Aug.	Seminar	Training Seminar on Application of Remote Sensing for Natural Resources Survey, Planning and Development	Reading, United Kingdom	FAO, UNESCO	Global	F: 24 T: 24	A/AC.105/185
16.		9 - 20 Aug.	Seminar	Training Seminar on Remote Sensing Applications	Lenggries, Federal Rep. of Germany	Govt. of Federal Rep. of Germany FAO, UNESCO	Global	F: 20 T: 29	A/AC.105/186
17.		27 Sept - 16 Oct.	Workshop	Training Workshop on Remote Sensing Applications	Anaheim, California, USA	IAF, AIAA	Global	F: 25 T: 30	A/AC.105/184

No.	Year	Date	Type of event	Title of event	Place of event	Co-sponsors	Region of impact	Number of participants* F/T	United Nations document symbol
18.		25 Oct.- 12 Nov.	Training Course	International Training Course on Remote Sensing Applications	Rome, Italy	Govt. of Italy, FAO, UNESCO	ECA	F: 18 T: 18	A/AC.105/187
19.	1977	17 - 28 Jan.	Seminar	Training Seminar on Remote Sensing Applications in Agriculture	Karachi, Pakistan	Govt. of Pakistan UNESCO	ESCAP, ECWA	T: 44	A/AC.105/194
20.		25 April- 13 May	Training Course	Second UN International Training Course in Remote Sensing Applications for Agriculture, Crop Statistics and Agricultural Census	Rome, Italy	Govt. of Italy FAO, UNESCO	Global	F: 17 T: 17	A/AC.105/198
21.		3 - 19 Oct.	Seminar	Training Seminar on Remote Sensing Applications	Baku, USSR	Govt. of USSR UNDRO, UNEP,UNESCO	Global	F: 27 T: 27	A/AC.105/208
22.		31 Oct. - 5 Nov.	Expert Meeting	Panel Meeting on Satellite Instructional Television Experiment by India	Ahmedabad, India	Govt. of India UNESCO, ISRO,	Global	T: 20	A/AC.105/209
23.		1 - 9 Dec.	Seminar	Training Seminar on the Applications of Satellite Remote Sensing	La Paz, Bolivia	Govt. of Bolivia FAO, UNESCO	ECLAC	F: 23 T: 28	A/AC.105/210
24.		15 May- 2 June	Training Course	Third International Training Course on the Applications of Remote Sensing Techniques to Tropical Forestry	Rome, Italy	Govt. of Italy FAO	Global	F: 16 T: 20	A/AC.105/222
25.		4 - 16 Sept.	Seminar	Training Seminar on Remote Sensing Applications	Nairobi, Kenya	Govt. of Kenya, Govt. of Sweden, FAO, UNEP	ECA	F: 18 T: 29	A/AC.105/227
26.		2 - 11 Oct.	Seminar	Regional Seminar on the Use of Satellite Technology for Disaster Applications	São José dos Campos, Brazil	Govt. of Brazil UNDRO, UNESCO	ECLAC	F: 12 T: 18	A/AC.105/228
27.		23 Oct. - 2 Nov.	Seminar	Training Seminar on the Interpretation, Analysis and Uses of Meteorological Satellite Data	Tokyo, Japan	Govt. of Japan WMO	ESCAP, ECWA	F: 12 T: 32	A/AC.105/229
28.		6 - 24 Nov.	Seminar	Regional Training Seminar on Remote Sensing Applications for Agricultural Resources	Dehra Dun, Ahmedabad, Hyderbad, India	Govt. of India, FAO, ISRO, NRSA	ESCAP,	F: 11 T: 31	A/AC.105/230

No.	*Year*	*Date*	*Type of event*	*Title of event*	*Place of event*	*Co-sponsors*	*Region of impact*	*Number of participants* F/T*	*United Nations document symbol*
29.	1979	14 May - 1 June	Training Course	Fourth Training Course on the Applications of Remote Sensing Techniques to Fisheries	Rome, Italy	Govt. of Italy FAO,	Global	F: 20 T: 20	A/AC.105/253
30.		5 - 23 Nov.	Seminar	Regional Training Seminar on Remote Sensing Applications	Ibadan, Nigeria	Govt. of Nigeria FAO	ECA	F: 15 T: 35	A/AC.105/254
31.		5 - 28 Nov.	Training Course	Training Course on Remote Sensing Applications	Buenos Aires, Argentina	Govt. of Argentina, CNIE	ECLA	F: 14 T: 26	A/AC.105/255
32.		1- 11 Dec.	Seminar	Training Seminar on Remote Sensing Applications	Damascus, Syrian Arab Republic	Govt. of Syrian Arab Republic	ECWA	F: 11 T: 57	A/AC.105/256
33.	1980	9 - 23 Jan.	Seminar	Regional Training Seminar on Remote Sensing Applications for Agriculture, Rangeland and Hydrology	Ouagadougou, Upper Volta	Govt. of Upper Volta Ouagadougou Regional RS Centre	ECA	F: 10 T: 27	A/AC.105/281
34.		19 May - 6 June	Training Course	Fifth International Training Course on Remote Sensing Applications to Water Resources and Hydrology	Rome, Italy	Govt. of Italy FAO, UNESCO	Global	F: 20 T: 22	A/AC.105/280
35.		15 - 20 Sept.	Seminar	Seminar on Remote Sensing Applications to Land Use Planning	Tokyo, Japan	IASD/SIAJ	ESCAP	F: 17	A/AC.105/283
36.		7 - 17 Oct.	Seminar	Regional Training Seminar on Remote Sensing Applications for Land Resources	Athens, Greece	Govt. of Greece FAO	ECWA, Mediter-ranean region	F: 8 T: 27	A/AC.105/282
37.		17 - 29 Nov.	Seminar	International Seminar on Remote Sensing Applications in Geology and Hydrology	Baku, USSR	Govt. of USSR, State Cmt. for S&T of Council of Ministers & Academy of Sc. of Azerbaijan, UNEP	Global	F: 18	A/AC.105/284

No.	Year	Date	Type of event	Title of event	Place of event	Co-sponsors	Region of impact	Number of participants* F/T	United Nations document symbol
38.	1981	11 - 19 March	Seminar	Regional Seminar on Remote Sensing Applications & Satellite Communication for Education Development	Addis Ababa, Ethiopia	ECA	ECA	F: 18 T: 47	A/AC.105/289
39.		7 - 14 April	Seminar	Regional Seminar on Remote Sensing Applications and Satellite Communication for Education and Development	Buenos Aires, Argentina	Govt. of Argentina	ECLAC	F: 18 T: 90	A/AC.105/290
40.		21 - 25 April	Seminar	Regional Seminar on Remote Sensing Applications and Satellite Communications for Education and Development	Toulouse, France	Govt. of France CNES	Global	T: 56	A/AC.105/292
41.		27 April - 15 May	Training Course	Sixth International Training Course on Remote Sensing Applications to Pasture and Rangeland Development	Rome, Italy	Govt. of Italy FAO	Global	F: 19 T: 23	A/AC.105/296
42.		16 - 26 Sept.	Seminar	Regional Training Seminar on Remote Sensing Applications for Land Resources	Sofia, Bulgaria	Govt. of Bulgaria, Academy of Sciences, FAO	ECWA, Mediter-ranean region	F: 11 T: 19	A/AC.105/295
43.		18 - 25 Nov.	Seminar	Regional Seminar on Remote Sensing Applications and Satellite Communications for Education and Development	Jakarta, Indonesia	Govt. of Indonesia	ESCAP	F: 26 T: 172	A/AC.105/300
44.	1982	14 - 18 June	Seminar	Interregional Seminar on Space Applications in Preparation for UNISPACE 82	Addis Ababa, Ethiopia	ECA, ECWA	ECA, ECWA	F: 20 T: 33	A/AC.105/306
45.		19 - 23 April	Seminar	Regional Seminar on Space Applications in Preparation for UNISPACE 82	Quito, Ecuador	Govt. of Ecuador	ECLA	F: 20 T: 62	A/AC.105/307
46.		30 Aug. - 17 Sept.	Training Course	Seventh International Training Course on the Applications of Satellite Remote Sensing to Thematic Mapping with Special Reference to Land Use	Rome, Italy	Govt. of Italy FAO	Global	F: 21 T: 21	A/AC.105/312

No.	Year	Date	Type of event	Title of event	Place of event	Co-sponsors	Region of impact	Number of participants* F/T	United Nations document symbol
47.	1983	2 - 6 May	Seminar	Regional Seminar on Space Applications Focusing on the Implementation of the Recommendations of UNISPACE 82	São José dos Campos, Brazil	Govt. of Brazil INPE	ECLAC	F: 17 T: 68	A/AC.105/321
48.		30 May - 3 June	Seminar	Regional Seminar on Space Applications Focusing on the Implementation of the Recommendations of UNISPACE 82	Bangkok, Thailand	ESCAP	ESCAP	F: 20 T: 20	A/AC.105/322
49.		4 - 8 July	Seminar	Interregional Seminar on Space Applications Focusing on the Implementation of the Recommendations of UNISPACE 82	Addis Ababa, Ethiopia	Govt. of Ethiopia	ECA, ECWA	F: 17 T: 18	A/AC.105/326
50.		11 - 29 July	Seminar	First International Seminar on the Application of Remote Sensing to Operational Agro-Meteorology in Semi-arid Countries	Niamey, Niger	WMO, ESA, FAO	ECA, ECWA	F: 20 T: 22	A/AC.105/328
51.		19 Sept. - 7 Oct.	Training Course	Eighth International Training Course on the Applications of Satellite Remote Sensing to Water Resources	Rome, Italy	Govt. of Italy FAO, UNESCO	Global	F: 21 T: 21	A/AC.105/329
52.	1984	7 - 11 May	Expert Meeting	International Meeting of Experts on Remote Sensing Information Systems	Feldafing & Oberpfaffen-hofen, FRG	Govt. of FRG ESA	Global	F: 28 T: 56	A/AC.105/343
53.		21 May - 9 June	Training Course	Third International Training Course on Remote Sensing Applications to Forestry	Moscow, USSR	Govt. of USSR	Global	F: 24 T: 24	A/AC.105/345
54.		23 - 25 May	Expert Meeting	Regional Meeting of Experts on Space Science and Technology and its Applications	Jakarta, Indonesia	Govt. of Indonesia	ESCAP	F: 6 T: 25	A/AC.105/346
55.		10 - 28 Sept.	Training Course	Ninth International Training Course on the Applications of Remote Sensing to Aquaculture and Inland Fisheries	Rome, Italy	Govt. of Italy FAO	Global	F: 20 T: 22	A/AC.105/347

No.	Year	Date	Type of event	Title of event	Place of event	Co-sponsors	Region of impact	Number of participants* F/T	United Nations document symbol
56.	1985	16 April - 2 May	Training Course	Second International Training Course on Remote Sensing Applications to Operational Agro-Meteorology and Hydrology	Nairobi, Kenya	Govt. of Sweden WMO, FAO, ESA	ECA, ECE, ESCWA	F: 25 T: 25	A/AC.105/356
57.		6 - 31 May	Training Course	Tenth International Training Course on Remote Sensing Applied to Monitoring Forest Lands	Rome, Italy & Feldafing, the FRG	Gov. of Italy and Govt. of the FRG	Global	T: 20	A/AC.105/357
58.		29 April - 10 May	Workshop	Workshop on Remote Sensing Instrumentation, Data Acquisition and Analysis	Sofia, Bulgaria	Govt. of Bulgaria	Global	F: 25	A/AC.105/362
59.		20 - 31 May	Seminar	International Seminar on Satellite Communications	Moscow, USSR	Govt. of USSR	Global	F: 24 T: 24	A/AC.105/361
60.		21 - 29 Oct.	Workshop	Workshop on Advances in Space Science and Technology and its Applications	Beijing, China	Govt. of China	Global	F: 13 T: 57	A/AC.105/363
61.		4 - 8 Nov.	Workshop	Workshop on Space Science and Technology and its Applications Within the Framework of Educational Systems	Ahmedabad, India	Govt. of India ISRO	ESCAP	F: 17 T: 48	A/AC.105/365
62.	1986	5 - 30 May	Training Course	Eleventh International Training Course on Remote Sensing Applications in Agricultural Statistics	Rome, Italy & Montpellier, France	Govts. of France and Italy, FAO,	Global	F: 21 T: 22	A/AC.105/376
63.		16 - 20 June	Expert Meeting	Meeting of Experts on Regional Co-operation in Space Science and Technology and its Applications.	Cartagena, Colombia	Govt. of Colombia	ECLAC	F: 16 T: 34	A/AC.105/375
64.		15 - 19 Sept.	Expert Meeting	Regional Meeting of Experts on Space Technology Applications in the Indian Ocean Region	Colombo, Sri Lanka	Govt. of Sri Lanka	Global	F: 14 T: 57	A/AC.105/374
65.		22 Sept. - 3 Oct.	Training Course	Training Course on Drought Assessment and Vegetation Monitoring Using Meteorological Satellite and Other Space Related Data	Maspalomas, Spain	Govts. of France and Spain, ESA, FAO	ECA	F: 17 T: 17	A/AC.105/377

No.	*Year*	*Date*	*Type of event*	*Title of event*	*Place of event*	*Co-sponsors*	*Region of impact*	*Number of participants* F/T*	*United Nations document symbol*
66.		13 - 17 Oct.	Expert Meeting	Meeting of Experts on Space and Technology and its Applications Within the Framework of Educational Systems	Mexico City, Mexico	Govt. of Mexico	ECLAC	F: 14 T: 46	A/AC.105/378
67.		21 Oct. - 7 Nov.	Training Course	Third International Training Course on Remote Sensing Applications to Operational Agro-Meteorology and Hydrology	Quito, Ecuador	Govt. of Ecuador WMO, FAO, ESA,	ECLAC	F: 17 T: 24	A/AC.105/379
68.	1987	27 April - 21 May	Expert Meeting	Meetings of Experts on Space Science and Technology and its Applications Within the Framework of Educational Systems	Lagos, Nigeria	Govt. of Nigeria	ECA	F: 16 T: 59	A/AC.105/390
69.		11 - 30 May	Training Course	Twelfth International Training Course on the Applications of Remote Sensing to Marine Fisheries	Rome, Italy	Govt. of Italy FAO	Global	F: 22 T: 22	A/AC.105/388
70.		3 - 15 June	Seminar	International Seminar on Space Communications	Moscow, USSR	Govt. of USSR	Global	F: 15 T: 15	A/AC.105/391
71.		6 - 23 Oct.	Training Course	Training Course on Remote Sensing Applications to Geological Sciences	Dresden, Germany	German Democratic Republic	Global	F: 13 T: 13	A/AC.105/393
72.		13 - 30 Oct.	Training Course	Fouth International Training Course on the Applications of Remote Sensing to Operational Agro-Meteorology and Hydrology	Jakarta, Indonesia	Govt. of Indonesia WMO, FAO, ESA,	ESCAP	F: 16 T: 24	A/AC.105/392
73.	1988	6 - 22 April	Training Course	Training Course on Applications of Remote Sensing and Agro-Meteorological Data to Drought Assessment and Vegetation Monitoring	Nairobi, Kenya	Govt. of France ESA, FAO, WMO, Regional Centre for Services in Surveying, Mapping & Remote Sensing, Nairobi	ECA, ESCWA	F: 21 T: 21	A/AC.105/413

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74.		19 - 23 Sept.	Seminar	International Seminar on the Development and Applications of Satellite Communication Systems	Beijing, China	Govt. of China	ESCAP	F: 9 T: 30	A/AC.105/416
75.		26 - 30 Sept.	Workshop	Workshop on Microwave Remote Sensing Technology	Bangkok, Thailand	Govt. of Thailand ESA	ESCAP	F: 11 T: 30	A/AC.105/417
76.		12 Sept. - 7 Oct.	Training Course	Thirteenth International Training Course in the Applications of Remote Sensing to Water Resources	Sardinia & Rome, Italy	Govt. of Italy FAO, UNESCO	Global	F: 19 T: 19	A/AC.105/414
77.		24 - 28 Oct.	Workshop	Workshop on Regional Space Information Systems	Lima, Peru	Govt. of Peru CONIDA	ECLAC	F: 17 T: 50	A/AC.105/422
78.	1989	8 - 12 May	Expert Meeting	Meeting of Experts on Remote Sensing and Satellite Meteorology Applications to Marine Resources and Coastal Management	Maspalomas, Spain	Govt. of Spain UNDP, FAO, ESA	ECA	F: 42 T: 84	A/AC.105/436
79.		15 May - 2 June	Training Course	Fifth International Training Course on the Use of Remote Sensing Systems in Hydrological and Agro-Meteorological Applications	Canberra, Australia	Govt. of Australia WMO, ESA	ESCAP	F: 19 T: 19	A/AC.105/437
80.		26 - 30 June	Expert Meeting	International Meeting of Experts on the Development of Remote Sensing Skills and Knowledge	Dundee, Scotland, UK	Govt. of UK of Great Britain and Northern Ireland	Global	F: 14 T: 44	A/AC.105/438
81.		25 Sept. - 6 Oct.	Workshop	Workshop on Oceonographic/Marine Space Information Systems	Karachi, Pakistan	Govt. of Pakistan IOMAC, UNESCO	Global	F: 27 T: 70	A/AC.105/439
82.		25 Sept. - 6 Oct.	Training Course	Training Course on the Use of Remote Sensing Data in Agriculture Management	Moscow, USSR	Govt. of USSR	Global	F: 16 T: 16	A/AC.105/440

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83.		5 - 22 Oct.	Training Course	Second Training Course on Remote Sensing Applications to Geological Sciences	Potsdam, GDR	Govt. of the German Democratic Republic	Global	F: 15 T: 19	A/AC.105/441
84.		6 - 24 Nov.	Training Course	Fourteenth International Training Course on Remote Sensing Applications to Land Resources	Rome, Italy	Govt. of Italy FAO	Global	F: 23 T: 23	A/AC.105/442
85.	1990	14 May - 15 June	Training Course	International Training Course on Remote Sensing Education for Educators	Stockholm & Kiruna, Sweden	Govt. of Sweden	ECA	F: 25 T: 25	A/AC.105/463
86.		26 - 30 March	Workshop	Workshop on Space Communications for Development	Havana, Cuba	Govt. of Cuba	ECLAC	F: 15 T: 57	A/AC.105/469
87.		19 - 23 Nov.	Workshop	Workshop on Microwave Remote Sensing Technology	São José dos Campos, Brazil	Govt. of Brazil INPE, FAO, ESA	ECLAC	F: 19 T: 57	A/AC.105/471
88.	1991	30 April - 30 May	Workshop	First Workshop on Basic Space Science	Bangalore, India	Govt. of India, ISRO	ESCAP	F: 19 T: 87	A/AC.105/489
89.		10 - 14 June	Workshop	Workshop on Microwave Remote Sensing Technology	Maspalomas, Spain	Govt. of Spain INTA, FAO, ESA	ECA, ESCWA	F: 17 T: 34	A/AC.105/493
90.		23 - 27 Sept.	Workshop	Workshop on the Applications of Space Techniques to Combat Natural Disasters	Beijing, China	Govt. of China ESCAP, UNDRO	ESCAP	F: 17 T: 72	A/AC.105/494
91.		9 Sept. - 4 Oct.	Training Course	International Training Course on Remote Sensing Applications for Environmental Assessment and Monitoring	Sioux Falls, South Dakota, USA	Govt. of USA., USGS, NASA, NOAA	Global	F: 23 T: 25	A/AC.105/499
92.		7 - 25 Oct.	Training Course	Third International Training Course on Remote Sensing Applications to Geological Sciences	Potsdam, Berlin, Germany	Govt. of Germany, Carl Duisberg Society, Berlin, ESA	Global	F: 19 T: 19	A/AC.105/495

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93.		7 - 25 Oct.	Training Course	Sixth Training Course on the Use of Visible, Infrared and Radar Sensor Systems in Hydrological and Agro-Meteorological Applications	Lima, Peru	Govt. of Peru CONIDA, WMO, ESA,	ECLAC	F: 18 T: 29	A/AC.105/496
94.	1992	9 - 13 March	Workshop	Workshop on Space Technology for Resource Development and Environmental Management	Quito, Ecuador	Govts. of Japan and Ecuador	ECLAC	F: 32 T: 98	A/AC.105/525
95.		11 May - 12 June	Training Course	Second International Training Course on Remote Sensing Education for Educators	Stockholm & Kiruna, Sweden	Govt. of Sweden BITS, SSC Satellitbild, Univ. of Stockholm	Global	F: 27 T: 27	A/AC.105/526
96.		6-7 August	Workshop	Workshop on Remote Sensing Data Analysis, Methods and Applications	Washington D.C., USA	ISPRS	Global		A/AC.105/545
97.		17 - 20 Aug.	Conference	International Conference on Satellite Remote Sensing for Resource Management, Environmental Assessment and Global Change Studies: Needs & Applications of Developing Countries	Boulder, Colorado, USA	Govt. of USA., NASA, NOAA, USGS, CIESIN	Global	F: 23 T: 150	A/AC.105/527
98.		28 Sept. - 16 Oct.	Training Course	Fourth International Training Course on Remote Sensing Applications to Geological Sciences	Potsdam, Berlin, Germany	Govt. of Germany, Carl Duisberg Gesellschaft	Global	F: 12 T: 19	A/AC.105/528
99.		12 - 30 Oct.	Training Course	Regional Training Course on the Use of Remote Sensing Systems in Hydrological and Agro-Meteorological Applications	Nairobi, Kenya	ESA, RCSSMRS	ECA, ESCWA	F: 6 T: 17	A/AC.105/529
100.		2 - 13 Nov.	Workshop	Second Workshop on Basic Space Science	San José, Costa Rica & Bogota, Colombia	Govts. of Costa Rica and Colombia, ESA, TPS	ECLAC	F: 19 T: 122	A/AC.105/530

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101.		24 - 28 Nov.	Workshop	Workshop on Space Communications for Development	Seoul, Republic of Korea	Govt. of the Republic of Korea	ESCAP	F: 18 T: 86	A/AC.105/531
102.	1993	19 - 30 April	Training Course	Training Course for African Francophone Countries on Applications of ERS-1 Data for Natural Resources, Renewable Energy and the Environment	Frascati, Italy	ESA	ECA	F: 24 T: 24	A/AC.105/556 A/AC.105/556/Add.1
103.		3 May - 4 June	Training Course	Third Training Course on Remote Sensing Education for Educators	Stockholm and Kiruna, Sweden	Govt. of Sweden BITS, SSC, Univ. of Stockholm	ECA	F: 26 T: 26	A/AC.105/552
104.		10 - 12 May	Workshop	Workshop on Space Communications for Development	Athens, Greece	Govt. of Greece Eugenidis Foundation, OTE	Eastern Europe, Mediter-ranean	F: 26 T: 47	A/AC.105/553
105.		17 - 21 May	Conference	Regional Conference on Space Science and Technology for Sustainable Development	Bandung, Indonesia	Govt. of Indonesia	ESCAP	F: 11 T: 182	A/AC.105/557
106.		27 - 30 Sept.	Workshop	Workshop on Applications of Space Techniques to Prevent and Combat Natural Disasters	Mexico City, Mexico	Govt. of Mexico, ESA, Mexican Communications Institute	ECLAC	F: 19 T: 69	A/AC.105/558
107.		10 Oct. - 6 Nov.	Training Course	Fifth Training Course on Remote Sensing Applications to Geological Sciences: The Planning and Management of the Environment; Natural Resources and Physical Infrastructure	Kathmandu, Nepal	Govt. of Germany, ESA, Carl Duisberg Gesellschaft	ESCAP	F: 19 T: 20	A/AC.105/561
108.		15 - 17 Oct.	Workshop	Workshop on organizing space activities in developing countries: Resources and Mechanisms.	Graz, Austria	Govt. of Austria IAF	Global	F: 40	A/AC.105/559

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109.		18 - 22 Oct.	Workshop	Third Workshop on Basic Space Science	Lagos, Nigeria	Govt. of Nigeria, ESA, DARA, International Centre for Theoretical Physics, NASA, NITEL(Nigerian Telecom.), TPS	Global	F: 18 T: 54	A/AC.105/560 A/AC.105/560/Add.1
110.		25 - 29 Oct.	Conference	Regional Conference on Space Technology for Sustainable Development in Africa	Dakar, Senegal	Govt. of France WMO, ESA, UNDP, USGS, EOSAT, ESA, MacDonald Dettwiler, Telespazio	ECA	F: 38 T: 133	A/AC.105/562
111.	1994	18 - 28 April	Training Course	Training Course for Latin American and Caribbean Countries on Applications of the European Remote Sensing Satellite (ERS-1) Data for Natural Resources, Renewable Energy and the Environment	Frascati, Rome Italy	Govt. of Italy ESA, United Nations Trust Fund for New and Renewable Sources of Energy	ECLAC	F: 24 T: 24	A/AC.105/594
112.		2 May - 10 June	Training Course	Fourth Training Course on Remote Sensing Education for Educators	Stockholm & Kiruna, Sweden	Govt. of Sweden SSC Satellitbild, Univ. of Stockholm	Global	F: 27 T: 27	A/AC.105/581
113.		27 June - 1 July	Workshop	Fourth Workshop on Basic Space Science	Cairo, Egypt	Govt. of Egypt, ESA, TPS	ESCWA	F: 28 T: 95	A/AC.105/580
114.		14 - 18 Sept.	Workshop	Workshop on Microwave Remote Sensing Applications	Beijing, China	Govt. of China ESA	ESCAP	F: 16 T: 85	A/AC.105/588
115.		3 - 14 Oct.	Workshop/ Training Course	Workshop on Global Change and Training Course on Microwave Remote Sensing Applications	Lima, Peru	Govt. of Peru CONIDA, ESA,	ECLAC	F: 21 T: 24	A/AC.105/596

No.	*Year*	*Date*	*Type of event*	*Title of event*	*Place of event*	*Co-sponsors*	*Region of impact*	*Number of participants* F/T*	*United Nations document symbol*
116.		12 - 15 Sept.	Workshop	Workshop on Enhancing Social, Economic and Environmental Security through Space Technology	Graz, Austria	Govt. of Austria State of Styria, City of Graz, ESA	Global	F: 42	A/AC.105/586
117.		6 - 9 Oct.	Symposium	Symposium on the Benefits of Space Technology for the Developing World: From Economic Growth to Environmental Protection	Jerusalem	Govt. of Israel IAF, ESA, CEC	Global		A/AC.105/589
118.	1995	27 Feb. - 3 March	Expert Meeting	Meeting of Experts on the Development of the Education Curricula for the Regional Centres for Space Science and Technology Education	Granada, Spain	Govt. of Spain University of Granada	Global	F: 26 T: 26	A/AC.105/649
119.		2 May - 9 June	Training Course	Fifth International Training Course on Remote Sensing Education for Educators	Stockholm and Kiruna, Sweden	Govt. of Sweden BITS, SSC Satellitbild, Univ. of Stockholm	Global	F: 25 T: 25	A/AC.105/617
120.		15 - 19 May	Training Course	Training Course on the Use of ERS-1 Data for the Mapping and Inventory of Natural resources in Africa	Libreville, Gabon	Govt. of Gabon, ESA	ECA	F: 13 T: 25	A/AC.105/613
121.		22 - 26 May	Workshop	Workshop on Space Techniques to Prevent and Combat Disasters	Harare, Zimbabwe	Govt. of Zimbabwe, ERSI, ESA	ECA	F: 14 T: 69	A/AC.105/610
122.		11 - 14 Sept.	Symposium	Symposium on Space Technology for Improving Life on Earth	Graz, Austria	Govt. of Austria Commission of European Communities, ESA	Global	T: 64	A/AC.105/615
123.		28 Sept. - 1 Oct.	Workshop	UN/IAF Workshop on Space Technology for Health Care and Environmental Monitoring in the Developing World	Oslo, Norway	Govt. of Norway Commission of European Communities, ESA, IAF	Global	T: 77	A/AC.105/612

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124.		30 Oct. - 3 Nov.	Conference	Regional Conference on Space Technology for Sustainable Development	Puerto Vallarta, Mexico	Govt. of Mexico, IMC, ESA, Instituto de Geografía, Universidad Nacional Autónoma de Mexico	ECLAC	F: 31 T: 66	A/AC.105/622
125.		13 - 24 Nov.	Training Course	International Training Course for Asia and the Pacific Countries on the Applications of ERS-1 Data to Natural Resources Renewable Sources of Energy & the Environment	Frascati, Italy	ESA, United Nations Trust Fund for New and Renewable Sources of Energy	Global	F: 14 T: 14	A/AC.105/623
126.		20 - 24 Nov.	Conference	International Conference for Theoretical Physics on Optics in Space Science & Technology	Trieste, Italy	ICTP	Global	F: 15 T: 52	A/AC.105/624
127.	1996	11 - 14 Jan.	Workshop	Fifth Workshop on Basic Space Science. From small telescopes to space missions	Colombo, Sri Lanka	ESA, Arthur C. Clarke Centre for Modern Technologies, Govt. of Sri Lanka	ESCAP	F: 32 T: 74	A/AC.105/640
128.		9 - 12 April	Conference	International Conference on Spin-Off Benefits of Space Technology: Challenges and Opportunities	Colorado Springs, Colorado, USA	Govt. of USA, NASA	Global	F: 18 T: 73	A/AC.105/642
129.		22 - 26 April	Workshop	Workshop on Microwave Remote Sensing Applications	Manila, Philippines	ESA, Govt. of Philippines, NAMRIA	ESCAP	F: 20 T: 68	A/AC.105/644
130.		6 May - 15 June	Training Course	Sixth Training Course on Remote Sensing Education for Educators	Stockholm and Kiruna, Sweden	Govt. of Sweden, BITS, SSC, Univ. of Stockholm	Global	F: 26 T: 26	A/AC.105/643

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131.		1 - 5 July	Workshop	Workshop on Space Technology to Prevent and Mitigate the Effects of Disasters	Santiago, Chile	ESA, Govt. of Chile, ONEMI, Comité de Asuntos Espaciales de Chile, Fuerza Aérea de Chile	ECLAC	F: 27 T: 289	A/AC.105/655
132.		9 - 13 Sept.	Conference	International Conference on Small Satellites: Missions and Technology	Madrid, Spain	INTA, ESA, Govt. of Spain	Global	F: 17 T: 263	A/AC.105/645
133.		9 - 12 Sept.	Symposium	Symposium on Space Technology Applications for the Benefit of Developing Countries	Graz, Austria	ESA, European Commission, Govt. of Austria	Global	T: 90	A/AC.105/646
134.		9 - 13 Sept.	Workshop	Sixth Workshop on Basic Space Science: Ground Based and Space Borne Astronomy	Bonn, Germany	ESA, DARA, Max Planck Institute for Radio Astronomy, Govt. of Germany	Global	F: 30 T: 120	A/AC.105/657
135.		3 - 6 Oct.	Workshop	Workshop on Education and Awareness: Space Technology and Applications in the Developing World	Beijing, China	ESA, IAF, Govt. of China	Global	F: 31 T: 93	A/AC.105/656
136.		4 - 8 Nov.	Conference	Second Regional Conference on Space Technology for Sustainable Development in Africa	Pretoria, South Africa	Govt. of South Africa, ESA, EOSAT, Inmarsat, NASA, Nuova Telespazio	ECA	F: 30 T: 99	A/AC.105/658
137.	1997	5 May - 13 June	Training Course	Seventh International Training Course on Remote Sensing Education for Educators	Stockholm and Kiruna, Sweden	Govt. of Sweden, BITS, SSC, Univ. of Stockholm	Global	F: 27 T: 27	A/AC.105/678

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138.		16 - 20 June	Workshop	Seventh Workshop on Basic Space Science: Small Astronomical Telescopes and Satellites in Education and Research	Tegucigalpa, Honduras	ESA	ECLAC	F: 24 T: 80	A/AC.105/682
139.		8 - 11 Sept.	Symposium	Symposium on Space Industry Co-operation with the Developing World	Graz, Austria	ESA, Govt. of Austria	Global	F: 28 T: 96	A/AC.105/683
140.		21 - 25 Sept.	Workshop	Workshop on Space Communication Technology for Capacity Building	Haifa, Israel	Govt. of Israel	Global	F: 13 T: 72	A/AC.105/684
141.		2 - 5 Oct.	Workshop	Workshop on Space Technology as a Cost Effective Tool to Improve Infrastructures in Developing Countries	Turin, Italy	ESA, IAF, Govt. of Italy, European Commission	Global	F: 30 T: 120	A/AC.105/686
142.		10 - 14 Nov.	Workshop	Workshop on Data Analysis Techniques	São José dos Campos, Brazil	ESA, INPE, Govt. of Brazil	Global	F: 17 T: 50	A/AC.105/687
143.		24 Nov - 5 Dec.	Training Course	Fourth Training Course on Applications of the European Remote Sensing Satellite Data for Natural Resources, Renewable Energy and the Environment	Frascati, Italy	ESA, United Nations Trust Fund for New and Renewable Sources of Energy	ECA	F: 20 T: 20	A/AC.105/688